

ANALYTICAL ABSTRACTS

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ANALYTICAL ABSTRACTS

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ERRATA

Some errata subsequently published in the journals abstracted are included in the following list. When the initials of given names in the Author Index and in the abstracts do not agree, the Index should be assumed to be correct.

VOL. 4, 1957

Abstract
No. *Line*

1948 2 for M. Lilteria read M. Litteria

The appropriate modification should be made to the Author Index, Vol. 4, 1957.

VOL. 5, 1958

Abstract
No. *Line*

647 3 after Zilversmit insert and K. Bowman

The appropriate modification should be made to the Author Index, Vol. 5, 1958.

VOL. 6, 1959

Index, p. cxvi, column 1, entry for **Tulyupa, F. M.**, line 1, for 2738 read 2838
Index, p. cxvii, column 1, entry for **Usatenko, Yu. I.**, and **Tulyupa, F. M.**, line 3, for 2738 read 2838

Vol. 8, 1961

Abstract
No. *Line*

726 2 for anhydron read anthrone
2885 3 insert V. after reagent.
3089 3 for 61A— read 53A—55A;
3181 5 for 1960 read 1961

Appropriate modifications should be made to the Author Index, Vol. 8, 1961.

VOL. 9, 1962

Index, p. cxix, column 1, line 4, for **Sterescy, M.** read **Sterescu, M.**
Index, p. cxxxvii, column 1, entry for **Wroński, M.**, line 10, for 2897 read 2807

VOL. 10, 1963

Index, p. cxv, column 1, entry for **Schiller, P.**, and **Majer, J.**, line 4, for 1652 read 1659

VOL. 11, 1964

Index: the page before p. viii should be numbered vii, not vi
Index, p. x, column 1, delete the entry for **Barker, E.**, and **Sloman, K. G.**
Index, p. xvii, column 1, insert —and **Sloman, K. G.** [Analytical Reviews, 1963. Applications.] Food, 849. immediately after the entry for **Barker, E.**
Index, p. xxi, column 1, transpose the entry—See also **Barcza, L.**, 1334. to follow the entry for **Burger, K.**
Index, p. lxxiii, column 2, entry for **Kubota, H.**, and **Surak, J. G.**, line 2, for upferron read cupferron
Index, p. lxxxv, column 1, entry for **Marymont, J. H.**, and **London, M.**, line 3, for II. read III.
Index, p. cxxiv, column 2, entry for **Sloman, K. G.**, for **Barker, E.** read **Borker, E.**
Index, p. cli, column 1, entry for **Ziegler, M.**, line 5, insert and before **Maung, M. T.**
Index, p. clxii, column 1, entry for **Blood serum**, line 47, insert, 283. after [^{131}I]tri-iodothyronine
Index, p. clxx, column 1, entry for **Chromate**, lines 2 and 3, these lines should read
in presence of $\text{Cr}_2\text{O}_7^{2-}$, 4249.
spectroph., 3077.
sepn., from $\text{Cr}_2\text{O}_7^{2-}$ and SO_4^{2-} , by ion-exch., 874.
Index, p. clxiv, column 2, entry for **Copper**, extraction, insert of Cu^{2+} , 492. immediately below of
complexes of, 4147.
Index, p. cxc, column 1, entry for **Indicators**, line 14, delete the comma after **Azoic**.
Index, p. ccvi, column 1, line 33, for β -naphthquinoline. read β -naphthoquinoline.
Index, p. ccvi, column 2, line 37, for *NNN'N'-tetramethyl-0-tolidine* read *NNN'N'-tetramethyl-o-tolidine*

Abstract
No. *Line*

849 12 for E. Barker read E. Borker
1048 2 for II. read III.
3755 1 insert Analysis of organometallic compounds. I. before Volumetric
3755 2, 3 delete I. Analysis of organometallic 'sandwich' compounds.
3982 for the corrected text see abstract 3551, July issue, 1965

Appropriate modifications should be made to the Author Index, Vol. 11, 1964

Abstract

No.	Line
39	14 for position read positron
50	2,3 for antipyrinylbis-[<i>p</i> -(4-methylbenzylaminophenyl) - methanol. read antipyrinylbis-[<i>p</i> -(4-methylbenzylamino)phenyl]methanol.
59	3 for Hamid read Khamid
103	14 this line should read applied to refrigerants (e.g., CCl_2F_2) or HCl.
128	3 for R. K. Behn read R. K. Behm
207	2 for M. Neprá, read M. Nepraš,
231	1 for lignosulphates read lignosulphonates
280	3 for H. Brzuszkiewicz read H. Brzyskiewicz
471	9 for (>30 ml) read (vol. <30 ml)
525	10 for others at pH <6 . read others at pH >6 .
571	8 for in HCl is (13:7). read is in HCl (13:7).
651	5 for soln. ≥ 70 ml, read soln. (≥ 70 ml).
761	7 for N-(4-pyridyl)pyridinium read N-(4-pyridyl)pyridinium
824	12 insert and before by paper chromatography.
903	3 for 2-(α -cyclohexylmandeyloxyethyldi- read 2-(α -cyclohexylmandeyloxy)ethyldi-
1014	5 for 1964, read 1963,
1041	11 for $\pm 5\%$. read $\pm 0.5\%$ by vol.
1081	8 for best read test
1146	1 for 1,2'-bipyridyl read 2,3'-bipyridyl
1146	8 for 1,2'-bipyridyl read 2,3'-bipyridyl
1180	18 for ZnCl_2 read SnCl_2
1210	2 for Taitiro Fujinaga read Taitiro Fujinaga
1236	4 for S. A. Giller, read S. Hillers.
1280	2,3 for M. Parpar read M. Perpar
1382	1 insert Analysis of dermatological and cosmetic salves. X. before Detection
1382	2, 3 delete X. Analysis of dermatological and cosmetic salves.
1405	3 for V. De Villiers read V. de Villiers
1476	12 for [1,1-bis- <i>p</i> -chloro- read [1,1-bis-(<i>p</i> -chloro-
1615	5 for [1(14)] read [1(4)]
1626	4 for Siu-Hua Chang read Hsiu-Hua Chang
1661	10 insert) after complexes
1677	3 for Che-Ming Nee read Che-Ming Ni
1704	5 insert) after (C.I. Ingrain Blue 1
1760	8 for $<(180$ mesh) read (<180 mesh)
1761	22 insert 1964, before 11,
1829	2 insert (before Mo
1834	2 for Textil-Praxis read Textil
1861	14 for and 2N-HCl read add 2N-HCl
1941	2 for iodine, read iodide,
2013	3 for T. R. Stanley, read T. W. Stanley,
2160	3, 24 for U. Stolarczykowa read U. Stolarczyk
2232	12 for <200 mg read ≥ 200 mg
2333	15 for $(\text{NH}_4)_2\text{SO}_4$, 1.5) read $(\text{NH}_4)_2\text{SO}_4$, 1.5]
2380	17, 18 for 4-[bis-(2-chloroethyl)amino]benzaldehyde read 4-[bis-(2-chloroethyl)amino]-2-chlorobenzaldehyde
2425	17 for ares read areas
2473	7 for IO_3^- read IO_3^-
2593	17 for 753 read 733
2683	4 for Zhu-Jiin Zhang and Huei-Ven Cheng read Chu-Chun Chang and Hui-Wen Cheng
2690	25 for Add 10 of conc. HCl, read Add 10 ml of conc. HCl,
2717	2 for Hamid read Khamid
2833	4 for R. C. Houle read C. R. Houle
2923	16 for Fe_2^+ read Fe^{2+}
2982	4 for 103 read 104
3039	2 for F. Said read F. El Said
3108	13 insert) after dihydroxybenzenes
3174	6, 7 delete both in 0.1N and 0.01N-acetic acid
3298	6 for B4uxelles, Tep. read Bruxelles, Rep.
3374	2 for phosphorodithioates, read phosphorodithioates.
3506	1, 2 for V. E. Egert, S. A. Giller, A. A. Lielgalve read V. Egerts, S. Hillers, A. Lielgalve
3554	27 for AgHO_3 read AgNO_3
3555	16 for 9-oxi-octadeca-trans,trans-10,12-dienoic, read 9-oxo-octadeca-trans,trans-10,12-dienoic,
3558	11 for max. level read max. r.f. level
3564	10 for pyridoxal read pyridoxol
3570	10 for 101,419) read 101(419)
3575	22 Replace this line by 0.02, $\pm 0.9\%$. Other elements present in natural

- 3668 19 for Cu(NO₃)₂ read Cu(NO₃)₂
 3690 11 for H₃AsO₄ read H₃AsO₄
 3723 12 insert a semicolon after 4M-HNO₃)
 3725 6 for ²¹⁴Tl read ²⁰⁴Tl
 3734 13, 14 for just until the mixture is neutral, or (acid to litmus), read (until the mixture is neutral, or just acid to litmus),
 3780 26 for Te³⁺ read Tl³⁺
 3784 8 for CHCl₃ read CHCl₃
 3785 10 for with 0·4N-HCl in read in 0·4N-HCl with
 3801 4 for 2mm-Eu³⁺ read 2mm-Eu³⁺
 3815 14 for in read In
 3823 4 for —501-B read No. 501-B
 3838 3 for N. Kurmayya read N. Kurmaiah
 3854 7, 22 for hydroxylation read olation
 3869 18 for inference read interference
 3965 14 for PdCe₂ read PdCl₂
 3975 21 for an acetone soln. read a soln. (in acetone)

 4063 4 for G. Gimbara read G. Cimbura
 4147 4 for I. Kelemen read I. Kelemen-Küttel
 4178 18 for E1% read E_{cm}^{1%}
 4181 11 for HCl read HCl
 4227 5,6 for After ashing the shell or de-fatted nib (5 g), read After alkaline ashing of the shell or de-fatted nib (5 g) by the procedure described,
 4244 14 for cis-11-Eicosanoic read cis-Eicosanoic
 4282 4,5 for [2-thiazol-4-yl]benzimidazole] read [2-(thiazol-4-yl)benzimidazole]
 4303 9 for >0·5 p.p.m. read ≈0·5 p.p.m.
 4411 15 insert azine, AsO₃³⁻ and SCN⁻ are before titrated
 4421 8 for phosphorothionate read phosphorothioate
 4424 10 insert two before isomers
 4460 10 for volatile SnCl₄). In read volatile SnCl₄, In
 4493 17 for with ≈1%, read within ≈1%,
 The number of the abstract after 4536 should be 4537, not 4693
 4703 8 for glucose, oxidase read glucose-oxidase
 4754 18 for chromatography (with read chromatography [with

 5023 2 insert) after Schneer
 5072 4 for Che-Ming Nee read Che-Ming Ni
 5097 8 for aq. read sq.
 5105 3, 4 for Che-Ming Nee, Chung-Fun Chu read Che-Ming Ni, Chung-Fen Chu
 5119 13 for N-p-tolylthiophen-2-carbohydroxamic acid read N-p-tolylthiophen-2-carbohydr-
 oxamic acid
 5553 4 for ChemikerZig read ChemikerZtg
 5620 5 after results. insert I.
 5662 15 for 50 ml, read 50 ml.
 5711 18 for Sn read Sm
 5812 3 for Tomoo Niwa read Tomoo Miwa

 6007 17 for 3,5,6-trihydroxy-2-methylindole, read 3,5,6-trihydroxy-1-methylindole,
 6035 1 insert Analytical studies on steroids. I. before Colorimetric
 6096 17 delete complete line
 6134 10 insert deproteinised before sample
 6588 2 after State Univ. insert East Lansing, U.S.A.). J. Ass. Off. Agric. Chem.,
 6712 24 replace this line by butter (25 samples) was 3·21%; the content of
 6742 17 for elicosenoic read eicosenoic

Cross references after abstract 2915. Delete lines 20 and 21

Cross references after abstract 5836, line 10. For 6571, read 6271.

JOURNALS

The following list contains the names of journals (and their abbreviations) from which papers have been abstracted regularly during the year. Journals that have been omitted are those that contain only an occasional analytical paper, and a number of Russian journals from which translated abstracts have been published through the medium of *Referativnyi Zhurnal*.

<i>Acad. R.P.R., Baza Cercet. Științ. Timișoara, Stud. Cercet. Științ. Chim.</i>	Academia Republicii Populare Romîne, Baza de Cercetări Științifice Timișoara, Studii și Cercetări Științe Chimice
<i>Acta Chem. Scand.</i>	Acta Chemica Scandinavica
<i>Acta Chim. Acad. Sci. Hung.</i>	Acta Chimica Academiae Scientiarum Hungaricae
<i>Acta Chim. Sinica</i>	Acta Chimica Sinica
<i>Acta Pharm. Hung.</i>	Acta Pharmaceutica Hungarica
<i>Acta Pharm. Jugosl.</i>	Acta Pharmaceutica Jugoslavica
<i>Acta Pharm. Tox., Khb.</i>	Acta Pharmacologica et Toxicologica [Copenhagen]
<i>Acta Polon. Pharm.</i>	Acta Poloniae Pharmaceutica
<i>Afinidad</i>	Afinidad
<i>Agric. Biol. Chem., Japan</i>	Agricultural and Biological Chemistry, Japan
<i>Amer. Dyest. Rep.</i>	American Dyestuff Reporter
<i>Amer. Ind. Hyg. Ass. J.</i>	American Industrial Hygiene Association Journal
<i>Amer. J. Clin. Path.</i>	American Journal of Clinical Pathology
<i>Amer. Min.</i>	American Mineralogist
<i>Anal. Biochem.</i>	Analytical Biochemistry
<i>Anal. Chem.</i>	Analytical Chemistry
<i>Anal. Chim. Acta</i>	Analytica Chimica Acta
<i>Analyst</i>	Analyst
<i>Analyzer</i>	Analyzer
<i>An. Bromatologia</i>	Anales de Bromatologia
<i>Angew. Chem., Int. Ed.</i>	Angewandte Chemie, International Edition
<i>Ann. Biol. Clin.</i>	Annales de Biologie Clinique [Paris]
<i>Ann. Chim., Roma</i>	Annali di Chimica [Rome]
<i>Ann. Falsif. Expert. Chim.</i>	Annales des Falsifications et de l'Expertise Chimique
<i>Ann. Pharm. Franç.</i>	Annales Pharmaceutiques Françaises
<i>Ann. Univ. Mariae Curie-Skłodowska, D</i>	Annales Universitatis Mariae Curie-Skłodowska, D
<i>An. Real Soc. Esp. Fis. Quím., B</i>	Anales de la Real Sociedad Española de Física y Química, Serie B
<i>An. Științ. Univ. "Al. I. Cuza" Iași, Sect. I</i>	Analele Științifice ale Universității "Al. I. Cuza" din Iași, Section I
<i>Antibiotiki</i>	Antibiotiki [Moscow]
<i>Appl. Optics</i>	Applied Optics
<i>Appl. Spectroscopy</i>	Applied Spectroscopy
<i>Arch. Biochem. Biophys.</i>	Archives of Biochemistry and Biophysics
<i>Arch. Eisenhüttenw.</i>	Archiv für das Eisenhüttenwesen
<i>Arch. Pharm., Berlin</i>	Archiv der Pharmazie und Berichte der deutschen pharmazeutischen Gesellschaft
<i>Arzneimittel-Forsch.</i>	Arzneimittel-Forschung
<i>Atomnaya Energiya</i>	Atomnaya Energiya [Moscow]
<i>Atompraxis</i>	Atompraxis
<i>Aust. J. Appl. Sci.</i>	Australian Journal of Applied Science
<i>B.C.I.R.A. Journal</i>	B.C.I.R.A. Journal [British Cast Iron Research Association]
<i>Beitr. Tabakforsch.</i>	Beiträge zur Tabakforschung
<i>Ber. dtsch. keram. Ges.</i>	Bericht der deutschen keramischen Gesellschaft und des Vereins deutscher Email-fachleute e.V.
<i>Biochem. Biophys. Res. Commun.</i>	Biochemical and Biophysical Research Communications
<i>Biochemistry</i>	Biochemistry
<i>Biochem. J.</i>	Biochemical Journal
<i>Biochem. Z.</i>	Biochemische Zeitschrift
<i>Biochim. Appl.</i>	Biochimica Applicata
<i>Biochim. Biophys. Acta</i>	Biochimica et Biophysica Acta
<i>Biokhimiya</i>	Biokhimiya [Moscow]
<i>Biul. Inst. Roślin Lecznicznych</i>	Buletyn Instytutu Roślin Lecznicznych
<i>Boll. Lab. Chim. Provinciali</i>	Bollettino dei Laboratori Chimici Provinciali [Bologna]
<i>Boll. Soc. Ital. Biol. Sper.</i>	Bollettino della Società Italiana di Biologia Sperimentale
<i>Brauwissenschaft</i>	Brauwissenschaft
<i>BrennstChemie</i>	Brennstoff-Chemie
<i>Brit. J. Appl. Phys.</i>	British Journal of Applied Physics
<i>Brit. Med. J.</i>	British Medical Journal
<i>Brit. Plast.</i>	British Plastics
<i>Bull. Chem. Soc. Japan</i>	Bulletin of the Chemical Society of Japan
<i>Bull. Soc. Chim. Belg.</i>	Bulletin des Sociétés Chimiques Belges
<i>Bull. Soc. Chim. Biol.</i>	Bulletin de la Société de Chimie Biologique
<i>Bull. Soc. Chim. France</i>	Bulletin de la Société Chimique de France

<i>Canad. J. Biochem.</i>	..	..	Canadian Journal of Biochemistry
<i>Canad. J. Chem.</i>	..	..	Canadian Journal of Chemistry
<i>Canad. Spectroscopy</i>	..	..	Canadian Spectroscopy
<i>Cereal Chem.</i>	..	..	Cereal Chemistry
<i>Ceskosl. Farm.</i>	..	..	Československá Farmacie
<i>Chem. Anal., Warsaw</i>	..	..	Chemia Analityczna [Warsaw]
<i>Chem. Engng News</i>	..	..	Chemical and Engineering News
<i>Chemiker-Ztg</i>	..	..	Chemiker-Zeitung—Chemische Apparatur
<i>Chem. & Ind.</i>	..	..	Chemistry & Industry
<i>Chem.-Ing.-Tech.</i>	..	..	Chemie-Ingenieur-Technik
<i>Chemist Analyst</i>	..	..	Chemist-Analyst
<i>Chem. Listy</i>	..	..	Chemické Listy [Prague]
<i>Chem. Pharm. Bull., Japan</i>	..	..	Chemical & Pharmaceutical Bulletin [Japan]
<i>Chem. Průmysl</i>	..	..	Chemický Průmysl [Prague]
<i>Chem. Tech., Berlin</i>	..	..	Chemische Technik [Berlin]
<i>Chem. Weekbl.</i>	..	..	Chemisch Weekblad
<i>Chem. Zvesti</i>	..	..	Chemické Zvesti [Bratislava]
<i>Chim. Anal.</i>	..	..	Chimie Analytique
<i>Chim. e Ind.</i>	..	..	Chimica e l'Industria [Milan]
<i>Chimia</i>	..	..	Chimia [Switzerland]
<i>Clin. Chem.</i>	..	..	Clinical Chemistry [Baltimore, U.S.A.]
<i>Clin. Chim. Acta</i>	..	..	Clinica Chimica Acta
<i>Coll. Czech. Chem. Commun.</i>	..	..	Collection of Czechoslovak Chemical Communications
<i>Compt. Rend.</i>	..	..	Compte Rendu Hebdomadaire des Séances de l'Académie des Sciences
<i>Compt. Rend. Acad. Agric. France</i>	..	..	Compte Rendu Hebdomadaire des Séances de l'Académie d'Agriculture de France
<i>Compt. Rend. Acad. Bulg. Sci.</i>	..	..	Compte Rendu de l'Académie Bulgare des Sciences
<i>Curr. Sci.</i>	..	..	Current Science [India]
<i>Dansk Tidsskr. Farm.</i>	..	..	Dansk Tidsskrift for Farmaci
<i>Dissert. Abstr.</i>	..	..	Dissertation Abstracts
<i>Dissert. Pharm., Kraków</i>	..	..	Dissertationes Pharmaceuticae [Kraków]
<i>Dokl. Akad. Nauk SSSR</i>	..	..	Dokladý Akademii Nauk SSSR
<i>Dokl. Akad. Nauk UzSSR</i>	..	..	Dokladý Akademii Nauk Uzbekskoi SSR
<i>Dtsch. ApothZtg</i>	..	..	Deutsche Apotheker-Zeitung
<i>Dtsch. LebensmittRdsch.</i>	..	..	Deutsche Lebensmittel-Rundschau
<i>Enzymologia</i>	..	..	Enzymologia
<i>Erdöl u. Kohle</i>	..	..	Erdöl und Kohle, Erdgas, Petrochemie
<i>Experientia</i>	..	..	Experientia [Basle]
<i>Farbe u. Lack</i>	..	..	Farbe und Lack
<i>Farmaco, Ed. Prat.</i>	..	..	Farmaco, Edizione Pratica
<i>Farm. Obzor</i>	..	..	Farmaceuticky Obzor
<i>Farm. Polska</i>	..	..	Farmacja Polska
<i>Faserforsch. u. Textiltech.</i>	..	..	Faserforschung und Textiltechnik
<i>Fette, Seif., Austrichmitt.</i>	..	..	Fette, Seifen, Anstrichmittel
<i>Forensic Sci. Soc. J.</i>	..	..	Forensic Science Society Journal
<i>Fuel, London</i>	..	..	Fuel [London]
<i>Geochim. et Cosmoch. Acta</i>	..	..	Geochimica et Cosmochimica Acta [London]
<i>Geokhimiya</i>	..	..	Geokhimiya [Moscow]
<i>Gigiena i Sanit.</i>	..	..	Gigiena i Sanitariya
<i>Glas-Instrum.-Tech.</i>	..	..	Glas-Instrumenten-Technik
<i>Glasnik Hem. Društva, Belgrade</i>	..	..	Glasnik Hemijskog Društva [Belgrade]
<i>Grasas y Aceites</i>	..	..	Grasas y Aceites [Seville]
<i>Helv. Chim. Acta</i>	..	..	Helvetica Chimica Acta
<i>Hilger J.</i>	..	..	Hilger Journal
<i>Hlth Phys.</i>	..	..	Health Physics
<i>Hua Hsueh Tung Pao [Chem. Bull., Peking]</i>	..	..	Hua Hsueh Tung Pao [Chemical Bulletin, Peking]
<i>Hutn. Listy</i>	..	..	Hutnické Listy [Prague]
<i>Ind. Chem.</i>	..	..	Industrial Chemist
<i>India Atomic Energy Estab.</i>	..	..	India Atomic Energy Establishment Reports
<i>Indian J. Appl. Chem.</i>	..	..	Indian Journal of Applied Chemistry
<i>Indian J. Chem.</i>	..	..	Indian Journal of Chemistry
<i>Indian J. Pharm.</i>	..	..	Indian Journal of Pharmacy
<i>Indian J. Technol.</i>	..	..	Indian Journal of Technology
<i>Inf. Quím. Anal.</i>	..	..	Información de Química Analítica [Madrid]
<i>Inst. Hierro y Acero</i>	..	..	Instituto del Hierro y del Acero

<i>Instrum. & Control Systems</i>	..	..	Instruments & Control Systems
<i>Int. J. Appl. Radiation and Isotopes</i>	..	..	International Journal of Applied Radiation and Isotopes
<i>Int. Sugar J.</i>	..	..	International Sugar Journal
<i>Israel J. Chem.</i>	..	..	Israel Journal of Chemistry
<i>Ital. J. Biochem.</i>	..	..	Italian Journal of Biochemistry
<i>Izv. Akad. Nauk LatvSSR, Ser. Khim.</i>	..	..	Izvestiya Akademii Nauk Latvičskoi SSR, Seriya Khimicheskaya
<i>Izv. Akad. Nauk SSSR, Ser. Khim.</i>	Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya
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<i>J. Agric. Chem. Soc. Japan</i>	Journal of the Agricultural Chemical Society of Japan
<i>J. Agric. Food Chem.</i>	..	..	Journal of Agricultural and Food Chemistry [Washington, D.C.]
<i>J. Amer. Oil Chem. Soc.</i>	..	..	Journal of the American Oil Chemists' Society
<i>J. Amer. Wat. Wks Ass.</i>	..	..	Journal of the American Water Works Association
<i>Japan Analyst</i>	..	..	Japan Analyst
<i>J. Appl. Chem.</i>	..	..	Journal of Applied Chemistry [London]
<i>J. Ass. Off. Agric. Chem.</i>	..	..	Journal of the Association of Official Agricultural Chemists
<i>J. Ass. Publ. Analysts</i>	..	..	Journal of the Association of Public Analysts
<i>J. Biol. Chem.</i>	..	..	Journal of Biological Chemistry
<i>J. Chem. Educ.</i>	..	..	Journal of Chemical Education
<i>J. Chem. Soc.</i>	..	..	Journal of the Chemical Society
<i>J. Chem. Soc. Japan, Pure Chem. Sect.</i>	..	..	Journal of the Chemical Society of Japan, Pure Chemistry Section
<i>J. Chim. Phys.</i>	..	..	Journal de Chimie Physique
<i>J. Chinese Chem. Soc.</i>	..	..	Journal of the Chinese Chemical Society [Taiwan]
<i>J. Chromatography</i>	..	..	Journal of Chromatography
<i>J. Dairy Res.</i>	..	..	Journal of Dairy Research
<i>J. Dairy Sci.</i>	..	..	Journal of Dairy Science
<i>J. Electroanal. Chem.</i>	..	..	Journal of Electroanalytical Chemistry
<i>J. Electrochem. Soc., N.Y.</i>	..	..	Journal of the Electrochemical Society [New York]
<i>J. Endocrin.</i>	..	..	Journal of Endocrinology
<i>J. Forensic Sci.</i>	..	..	Journal of Forensic Sciences
<i>J. Gas Chromatography</i>	..	..	Journal of Gas Chromatography
<i>J. Indian Chem. Soc.</i>	..	..	Journal of the Indian Chemical Society
<i>J. Inst. Brewing</i>	..	..	Journal of the Institute of Brewing
<i>J. Inst. Fuel</i>	..	..	Journal of the Institute of Fuel
<i>J. Instn Chem., India</i>	..	..	Journal and Proceedings of the Institution of Chemists [India]
<i>J. Inst. Petrol.</i>	..	..	Journal of the Institute of Petroleum
<i>J. Iron St. Inst.</i>	..	..	Journal of the Iron and Steel Institute
<i>J. Lab. Clin. Med.</i>	..	..	Journal of Laboratory and Clinical Medicine
<i>J. Lipid Res.</i>	..	..	Journal of Lipid Research
<i>J. Med. Lab. Technol.</i>	..	..	Journal of Medical Laboratory Technology
<i>J. Oil Col. Chem. Ass.</i>	..	..	Journal of the Oil and Colour Chemists' Association
<i>J. Org. Chem.</i>	..	..	Journal of Organic Chemistry
<i>J. Pharmacol.</i>	..	..	Journal of Pharmacology and Experimental Therapeutics
<i>J. Pharm. Belg.</i>	..	..	Journal de Pharmacie de Belgique
<i>J. Pharm. Pharmacol.</i>	..	..	Journal of Pharmacy and Pharmacology
<i>J. Pharm. Sci.</i>	..	..	Journal of Pharmaceutical Science
<i>J. Pharm. Soc. Japan</i>	..	..	Journal of the Pharmaceutical Society of Japan
<i>J. Phys. Chem.</i>	..	..	Journal of Physical Chemistry
<i>J. Polarographic Soc.</i>	..	..	Journal of the Polarographic Society
<i>J. prakt. Chem.</i>	..	..	Journal für praktische Chemie
<i>J. Res. Nat. Bur. Stand., A</i>	..	..	Journal of Research of the National Bureau of Standards, Section A
<i>J. Sci. Food Agric.</i>	..	..	Journal of the Science of Food and Agriculture
<i>J. Sci. Instrum.</i>	Journal of Scientific Instruments
<i>J. Soc. Cosmet. Chem.</i>	Journal of the Society of Cosmetic Chemists
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<i>J. Wat. Pollut. Control Fed.</i>	Journal of the Water Pollution Control Federation
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<i>Klin. Wochschr.</i>	Klinische Wochenschrift
<i>Lab. Delo</i>	Laboratornoe Delo [Moscow]
<i>Lab. Practice</i>	Laboratory Practice
<i>Lancet</i>	Lancet
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<i>Magyar Kém. Lapja</i>	Magyar Kémikusok Lapja
<i>Makromol. Chem.</i>	Makromolekulare Chemie
<i>Mater. Plast.</i>	Materie Plastiche
<i>Mater. Res. & Stand.</i>	Materials Research and Standards
<i>Medd. Norsk Farm. Selsk.</i>	Meddelelser fra Norsk Farmaceutisk Selskap
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<i>Med. Sci. & Law</i>	Medicine, Science and the Law
<i>Metallurgia, Manchr.</i>	Metallurgia [Manchester]
<i>Metallurg. Ital.</i>	Metallurgia Italiana [Milan]
<i>Mfg Chem.</i>	Manufacturing Chemist
<i>Microchem. J.</i>	Microchemical Journal
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<i>Neth. Milk Dairy J.</i>	Netherlands Milk and Dairy Journal
<i>Neue Hütte</i>	Neue Hütte
<i>N. Z. J. Sci.</i>	New Zealand Journal of Science
<i>Off. Dig., J. Paint Technol. Engng Optics and Spectroscopy [Optika i Spektroskopija]</i>	Official Digest, Journal of Paint Technology and Engineering Optics and Spectroscopy [English translation of Optika i Spektroskopija]
<i>Öst. ChemZtg</i>	Österreichische Chemiker-Zeitung
<i>Pakistan J. Sci. Ind. Res.</i>	Pakistan Journal of Scientific and Industrial Research
<i>Paper Mkr, London</i>	Paper Maker [London]
<i>Path. Biol. Semaine Hôp.</i>	Pathologie et Biologie, La Semaine des Hôpitaux
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<i>Pharmazie</i>	Pharmazie
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<i>Rev. Sci. Instrum.</i>	Review of Scientific Instruments
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<i>Talanta</i>	Talanta
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<i>Vopros. Med. Khim.</i>	Voprosy Meditsinskoi Khimii
<i>Wat. Sewage Wks</i>	Water & Sewage Works
<i>Wiss. Z. Tech. Hochsch. Chem. Leuna-Merseburg</i>	Wissenschaftliche Zeitschrift der Technischen Hochschule für Chemie, Leuna-Merseburg
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<i>Zavod. Lab.</i>	Zavodskaya Laboratoriya [Moscow]
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Abbreviations—In addition to those listed on p. ccxcii, the following abbreviations are used throughout the Subject Index.

amperom.	amperometric	gravim.	gravimetric	radiochem.	radiochemical
biol.	biological	identn.	identification	radiom.	radiometric
chrom.	chromatographic	ion exch.	ion exchange	sepn.	separation
colorim.	colorimetric	microbiol.	microbiological	simult.	simultaneously
conductim.	conductimetric	nephelom.	nephelometric	spectrofluorim.	spectrofluorimetric
coulom.	coulometric	oscillopolarogr.	oscillopolarographic	spectrogr.	spectrographic
determin.	determination	phosphorim.	phosphorimetric	spectroph.	spectrophotometric
electroph.	electrophoretic	photom.	photometric	turbidim.	turbidimetric
fluorim.	fluorimetric	polarogr.	polarographic	voltamm.	voltammetric
gasom.	gasometric	potentiom.	potentiometric	volum.	volumetric

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ABBREVIATIONS

Certain abbreviations in everyday use are not included in the following list. When any doubt might arise from the use of an abbreviation or symbol the word is printed in full.

alternating current	a.c.	millilitre	ml
ampere	amp.	millimetre	mm
Ångström unit	Å	millimicrogram	$m\mu g$
anhydrous	anhyd.	millimolar	mM
approximate, -ly	approx.	millivolt	mV
aqueous	aq.	minute (time)	min.
boiling-point	b.p.	molar (concentration)	M
calorie (large)	kg.cal.	molecul-e, -ar	mol.
calorie (small)	g.cal.	normal (concentration)	N
centimetre	cm	optical rotation	α
coefficient	coeff.	ounce	oz.
Colour Index (2nd Edition)	C.I.	parts per million	p.p.m.
concentrated	conc.	per cent.	%
concentration	concn.	per cent. (vol. in vol.)	% (v/v)
crystalline, -sed	cryst.	per cent. (wt. in vol.)	% (w/v)
cubic	cu.	per cent. (wt. in wt.)	% (w/w)
current density	c.d.	potential difference	p.d.
cycles per second	c/s	precipitate (as a noun)	ppt.
density	ρ	precipitated	pptd.
density, relative	d or wt. per ml	precipitating	pptg.
dilute (as adjective)	dil.	precipitation	pptn.
direct current	d.c.	preparation	prep.
electromotive force	e.m.f.	qualitative, -ly	qual.
electron volt	eV	quantitative, -ly	quant.
equivalent	equiv.	recrystallised	recryst.
ethylenediaminetetra-acetate	EDTA	refractive index	n_A^t
gram	g	relative band speed	R_F
gram-molecule	mole	relative humidity	r.h.
half-wave potential	E_t	revolutions per minute	r.p.m.
hour	hr.	saponification value	sap. val.
hydrogen ion exponent	pH	saturated calomel electrode	S.C.E.
infra-red	i.r.	second (time)	sec.
insoluble	insol.	soluble	sol.
international unit	i.u.	solution	soln.
ionic strength	I	specific gravity	sp. gr.
kilogram	kg	specific rotation	$[\alpha]_A^t$
kilovolt	kV	square centimetre	sq. cm
kilowatt	kW	standard temp. and pressure	s.t.p.
maxim-um, -a	max.	temperature	temp.
melting-point	m.p.	ultra-violet	u.v.
microgram	μg (not γ)	unit of pressure (mm Hg)	torr
microlitre	μl	vapour density	v.d.
micromole	μ mole	vapour pressure	v.p.
micron	μ	volt	V
milliampere	mA	volume	vol.
millicurie	mC	watt	W
milli-equivalent	milli-equiv.	wavelength	λ
milligram	mg	weight	wt.

In addition, the following symbols may be used in conjunction with numerical values or in mathematical expressions—

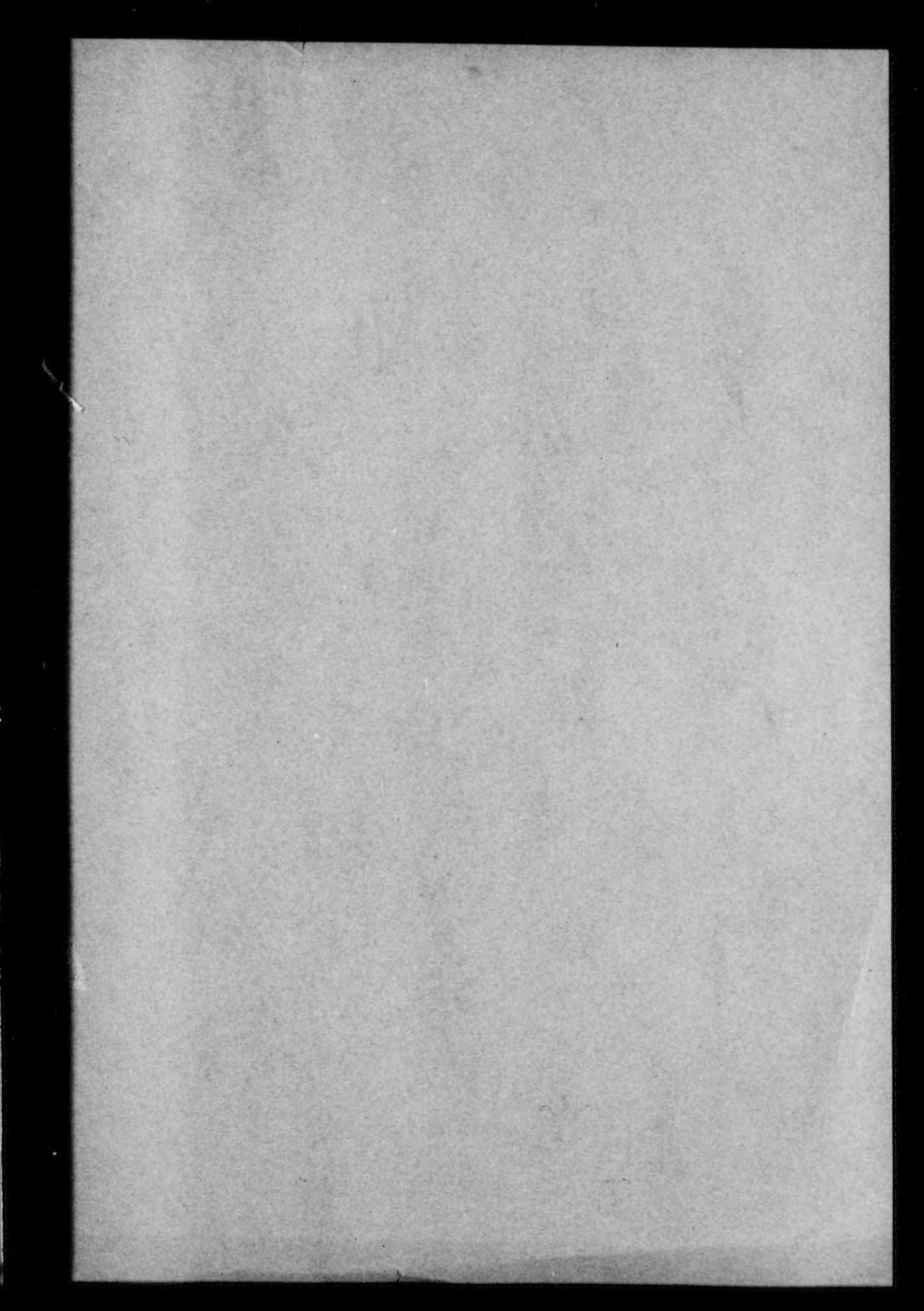
greater than	>	less than	<
not greater than	\geq	not less than	\leq
is proportional to	\propto	of the order of, approximately	\approx

The principal Pharmacopoeias are denoted by B.P., U.S.P. or D.A.B., together with the identifying roman numeral or year.

Valency states are represented by a superscript roman numeral, e.g., Fe^{II}, Mo^V. Substances in the ionic state are represented by Na⁺, Fe²⁺, Fe³⁺, etc., for cations and by Cl⁻, SO₄²⁻, PO₄³⁻, etc., for anions.

The chemical nomenclature used in the abstracts is that recommended by The Chemical Society ("Handbook for Chemical Society Authors," The Chemical Society, London, 1961), and may differ from that used in the original articles.

Pesticides are named in accordance with the British Standard 1831 : 1961, "Recommended Common Names for Pesticides."



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